L Number	Hits	Search Text	DB	Time stamp
1	5	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/11/14 09:22
		layer or medium or film)) and (optical near guid\$4 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((confinement near (region or layer or medium	DERWENT;	
		or film)) SAME (low\$5 with refractive near (index or indice)))	IBM_TDB	
-	27	laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/11/13 17:24
		or medium or film)) and (optical near guid\$ near (region or layer or	US-PGPUB;	
		medium or film)) and (active near (region or layer or medium or	ЕРО; ЈРО;	
		film)) and (confinement near (region or layer or medium or film))	DERWENT;	
	0.0	and refractive near (index or indice)	IBM_TDB USPAT;	0000/01/04 07.50
-	22	(laser near (device or semiconductor) and (clad\$ near (region or layer	US-PGPUB;	2002/01/24 07:59
		or medium or film)) and (optical near guid\$ near (region or layer or medium or film)) and (active near (region or layer or medium or	EPO; JPO;	
		film)) and (confinement near (region or layer or medium or film))	DERWENT;	
		and refractive near (index or indice)) AND 372/\$	IBM_TDB	
	22	(laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/01/22 11:09
-	22	or medium or film)) and (optical near guid\$ near (region or layer or	US-PGPUB;	2002/01/22 11.03
		medium or film)) and (active near (region or layer or medium or	EPO; JPO;	
		film)) and (confinement near (region or layer or medium or film))	DERWENT;	
		and refractive near (index or indice)) AND 372/\$	IBM_TDB	
_	36	(laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/01/23 15:28
		or medium or film)) and (optical near guid\$ near (region or layer or	US-PGPUB;	
		medium or film)) and (active near (region or layer or medium or	EPO; JPO;	
		film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$		
-	314	(laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/07/12 09:19
		or medium or film)) and (waveguide or guide or optical near guid\$	US-PGPUB;	
		near (region or layer or medium or film)) and (active near (region or	EPO; JPO;	
		layer or medium or film)) and ((graded or separate near confinement	DERWENT;	
		near heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$		
-	36	(laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/01/24 07:09
	1	or medium or film)) and (optical near guid\$ near (region or layer or	US-PGPUB;	
		medium or film)) and (active near (region or layer or medium or	EPO; JPO;	
		film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or medium or film)) and refractive near (index or indice)) AND 372/\$	IBM_TDB	
_	33	((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/07/18 15:35
-	33	layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	2002/01/18 13.33
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
		and (conduction or band or group)		
-	10	((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:30
		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
		and (conduction near(band or group))		
-	0	(((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:37
		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
i		and (conduction near(band or group))) and (DX near level) and		
	<u></u>	(fermi near level)	L	

-	0	(((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:40
		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	ЕРО; ЈРО;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
		and (conduction near(band or group))) and ((DX near level) or		
l		(fermi near level)) and bandgap		
-	8	(((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:40
1		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
	:	medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
	:	and (conduction near(band or group))) and (((DX near level) or		
		(fermi near level)) or bandgap)		
-	o	((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:40
İ		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
	i	heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
		and ((DX near level) or (fermi near level)) and bandgap		
-	11	((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:46
		layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	ı
1		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)	_	
		and (((DX near level) or (fermi near level)) or bandgap)		
-	11	(((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:48
	:	layer or medium or film)) and (optical near guid\$ near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	ЕРО; ЈРО;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
1		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
		and (((DX near level) or (fermi near level)) or bandgap)) and (clad\$		
		near\$4 bandgap)		
-	О	(((laser near (device or semiconductor) and (clad\$ near (region or	USPAT;	2002/01/23 13:48
		layer or medium or film)) and (optical near guid\$ near (region or '	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice)) AND 372/\$)		
ļ		and (((DX near level) or (fermi near level)) or bandgap)) and (clad\$		
		near bandgap)		
-	1	("4916708").PN.	USPAT	2002/01/23 14:04
-	1	(("4916708").PN.) and (AlGaInP)	USPAT;	2002/01/23 14:04
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	0	(dx adj level) and 372/\$	USPAT;	2002/07/18 17:01
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	1	(dx near level) and 372/\$	USPAT;	2002/01/23 14:55
		,	US-PGPUB;	
			EPO; JPO;	1
			DERWENT;	
			IBM_TDB	

	0	(dy near level) and (formi near level) and 970/5	USPAT;	0000/01/08 14.55
, -	0	(dx near level) and (fermi near level) and 372/\$	USPAT; US-PGPUB;	2002/01/23 14:55
			ЕРО; ЛРО;	
1			DERWENT;	
			IBM_TDB	
1	3	(laser near (device or semiconductor) and (clad\$ near (region or layer	USPAT;	2002/01/23 15:42
	3		US-PGPUB;	2002/01/23 15:42
ı		or medium or film)) and (optical near guid\$ near (region or layer or	EPO; JPO;	
1		medium or film)) and (active near (region or layer or medium or	DERWENT;	
		film)) and ((graded or separate near confinement near	1	
1		heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and (lower near refractive near (index or indice)))		
	a	AND 372/\$	USPAT;	2002/01/23 15:44
, -	3	("5753933").PN.	US-PGPUB;	2002/01/23 15:44
ı				
ı			EPO; JPO;	
ı			DERWENT;	
ı	F05	//-ll@/	IBM_TDB	0000/01/04 07:45
, -	587	((clad\$ near (region or layer or medium or film)) and ((graded or	USPAT;	2002/01/24 07:45
	!	separate near confinement near heterostructure or sch or	US-PGPUB;	
		confinement) near (region or layer or medium or film)) and refractive	EPO; JPO;	
		near (index or indice))	DERWENT;	
		//.lado/	IBM_TDB	0000/01/01 07:0
, -	166	((clad\$ near (region or layer or medium or film)) and ((graded or	USPAT;	2002/01/24 07:48
-		separate near confinement near heterostructure or sch or	US-PGPUB;	
t l		confinement) near (region or layer or medium or film)) and low\$	EPO; JPO;	
i		near refractive near (index or indice))	DERWENT;	
i			IBM_TDB	
i -	166	((clad\$ near (region or layer or medium or film)) and ((graded or	USPAT;	2002/01/24 09:04
		separate near confinement near heterostructure or sch or	US-PGPUB;	
		confinement) near (region or layer or medium or film)) and (low\$	EPO; JPO;	
		near refractive near (index or indice)))	DERWENT;	
		/// 1 1a / ' ' 1 1 2 5 61 \\ 4 1 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2 5 61 1 2	IBM_TDB	2002/01/24 05 77
-	119	(((clad\$ near (region or layer or medium or film)) and ((graded or	USPAT;	2002/01/24 07:55
		separate near confinement near heterostructure or sch or	US-PGPUB;	
		confinement) near (region or layer or medium or film)) and (low\$	EPO; JPO;	
		near refractive near (index or indice)))) and 372/\$	DERWENT;	
	0.5	// //alad@ maay (region or layer or medium or film)) and //araded or	IBM_TDB USPAT;	2002/01/24 08:01
-	85	((((clad\$ near (region or layer or medium or film)) and ((graded or	US-PGPUB;	2002/01/24 08:01
		separate near confinement near heterostructure or sch or	EPO; JPO;	
		confinement) near (region or layer or medium or film)) and (low\$	DERWENT;	
		near refractive near (index or indice)))) and \$72/\$) and ((optical near		
		guid\$ near (region or layer or medium or film)) or waveguide or	IBM_TDB	
		wavelenght)	TIOD A TO	2002/01/24 09:10
'	~	// //alade near /ramion or lavar or madium or flow \ and //anad-1	I I I V PAI.	
-	8	((((clad\$ near (region or layer or medium or film)) and ((graded or	USPAT;	2002/01/24 09:10
	8	separate near confinement near heterostructure or sch or	US-PGPUB;	2002/01/24 09:10
	8	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$	US-PGPUB; EPO; JPO;	2002/01/24 09:10
	8	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near	US-PGPUB; EPO; JPO; DERWENT;	2002/01/24 09:10
_		separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and 372/\$) and (optical near guid\$ near (region or layer or medium or film))	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	
_	8	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and 372/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2002/01/24 09:10
-		separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	
-		separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	
-		separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/01/24 09:08
-		separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2002/01/24 09:08
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/01/24 09:08
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/01/24 09:08
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))) and \$72/\$	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/01/24 09:08 2002/01/24 09:09
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))) and \$72/\$ (((clad\$ near (region or layer or medium or film)) and (((graded or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT;	2002/01/24 09:08
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))) and \$72/\$ (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2002/01/24 09:08 2002/01/24 09:09
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))) and \$72/\$ (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/01/24 09:08 2002/01/24 09:09
-	39	separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) and (low\$ near refractive near (index or indice)))) and \$72/\$) and (optical near guid\$ near (region or layer or medium or film)) ((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice)))) (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or confinement) near (region or layer or medium or film)) WITH (low\$ near refractive near (index or indice))))) and \$72/\$ (((clad\$ near (region or layer or medium or film)) and (((graded or separate near confinement near heterostructure or sch or	US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB;	2002/01/24 09:08 2002/01/24 09:09

-	14	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/07/18 15:30
		layer or medium or film)) and (optical near guid\$5 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((confinement near (region or layer or medium	DERWENT;	
		or film)) same (refractive near (index or indice)))	IBM_TDB	2000/07/12 22 22
-	20	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/07/12 09:37
		layer or medium or film)) and (optical near guid\$5 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and (((confinement or graded) near (region or layer	DERWENT;	
		or medium or film)) same (refractive near (index or indice)))	IBM_TDB	2002/05/12 00 40
-	4	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/07/12 09:40
		layer or medium or film)) and (optical near guid\$5 near (region or layer or medium or film)) and (active near (region or layer or	US-PGPUB; EPO; JPO;	
		medium or film)) and (((confinement or graded) near (region or layer	DERWENT;	
		or medium or film)) near (refractive near (index or indice)))	IBM_TDB	
	15	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	0000/07/15 08:80
-	15	layer or medium or film)) and (optical near guid\$5 near (region or	US-PGPUB;	2002/07/15 03:32
		layer or medium or film)) and (optical near guides near (region or layer or	EPO; JPO;	
		medium or film)) and (((confinement or graded) near (region or layer	DERWENT;	
		or medium or film)) with (refractive near (index or indice)))	IBM_TDB	
_	2	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/07/15 03:57
_	2	layer or medium or film)) and (optical near guid\$5 near (region or	US-PGPUB;	2002/07/13 03:37
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and (((confinement or graded) near (region or layer	DERWENT;	
		or medium or film)) with (low\$4 near2 refractive near (index or	IBM_TDB	
	1	indice)))	IDM_1DD	
-	8	laser near (device or semiconductor) and (clad\$5 near (region or	USPAT;	2002/07/15 03:41
ļ		layer or medium or film)) and (optical near guid\$5 near (region or	US-PGPUB;	2002/01/10 03:11
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and (((confinement or graded) near (region or layer	DERWENT;	
		or medium or film)) with ((low\$4 or small\$5) near2 refractive near	IBM_TDB	
		(index or indice)))		
-	20	((laser near (device or semiconductor) and (clad\$6 near (region or	USPAT;	2002/07/18 15:40
		layer or medium or film)) and (optical near guid\$6 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	•
		medium or film)) and ((graded or separate near confinement near	DERWENT;	
ļ	İ	heterostructure or sch or confinement) near (region or layer or	IBM_TDB	
		medium or film)) and refractive near (index or indice))) and		
		(conduction with (band or group))		
-	20	(laser near (device or semiconductor)) and (clad\$6 near (region or	USPAT;	2002/07/18 15:56
		layer or medium or film)) and (optical near guid\$6 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate or heterostructure or sch	DERWENT;	
		or confinement) near (region or layer or medium or film)) and	IBM_TDB	
		(refractive near (index or indice)) and (conduction with (band or		
		group))		
] -	3	((laser near (device or semiconductor)) and (clad\$6 near (region or	USPAT;	2002/07/18 16:18
		layer or medium or film)) and (optical near guid\$6 near (region or	US-PGPUB;	
		layer or medium or film)) and (active near (region or layer or	ЕРО; ЈРО;	
		medium or film)) and ((graded or separate or heterostructure or sch	DERWENT;	
		or confinement) near (region or layer or medium or film)) and	IBM_TDB	
		(refractive near (index or indice)) and (conduction with (band or		
		group))) and (Fermi near level)		
-	7	(laser near (device or semiconductor)) and ((clad\$6 near (region or	USPAT;	2002/07/18 16:00
		layer or medium or film)) with (conduction with (band or group)))	US-PGPUB;	
		and (optical near guid\$6 near (region or layer or medium or film))	EPO; JPO;	
		and (active near (region or layer or medium or film)) and ((graded or	DERWENT;	
		separate or heterostructure or sch or confinement) near (region or	IBM_TDB	
	ll	layer or medium or film)) and (refractive near (index or indice))		

-	3	((laser near (device or semiconductor)) and (clad\$6 near (region or layer or medium or film)) and (optical near guid\$6 near (region or	USPAT; US-PGPUB;	2002/07/18 16:12
		layer or medium or film)) and (active near (region or layer or	EPO; JPO;	
		medium or film)) and ((graded or separate or heterostructure or sch	DERWENT;	
		or confinement) near (region or layer or medium or film)) and	IBM_TDB	
		(refractive near (index or indice)) and (conduction with (band or		
		group))) and (Fermi) (laser near (device or semiconductor)) and ((clad\$6 near (region or	USPAT;	2002/07/18 16:20
-	8	layer or medium or film)) same (conduction with (band or group)))	US-PGPUB;	2002/07/18 10:20
		and (optical near guid\$6 near (region or layer or medium or film))	EPO; JPO;	
		and (active near (region or layer or medium or film)) and ((graded or	DERWENT;	
		separate or heterostructure or sch or confinement) near (region or	IBM_TDB	
		layer or medium or film)) and (refractive near (index or indice))	_	
_	1	((dx adj level)) and (clad\$6 near (region or layer or film or medium))	USPAT;	2002/07/18 17:13
		and ((graded or separate near confinement near heterostructure or	US-PGPUB;	
		sch or confinement) near (region or layer or medium or film))	EPO; JPO;	11
			DERWENT;	
			IBM_TDB	
-	2	((dx adj level)) and (clad\$6 near (region or layer or film or medium))	USPAT;	2002/07/18 17:09
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	1	((dx adj level)) and (clad\$6 near (region or layer or film or medium))	IBM_TDB USPAT;	2002/07/18 17:09
-	1	and ((heterostructure or sch or confinement) near (region or layer	US-PGPUB;	2002/01/18 11:05
		or medium or film))	EPO; JPO;	
		or mountain or many	DERWENT;	
			IBM_TDB	
-	15	(dx adj level)	USPAT;	2002/07/18 17:11
İ			US-PGPUB;	
			EPO; JPO;	
1			DERWENT;	
-			IBM_TDB	0000/05/10 15 10
-	141	(dx adj (center or level))	USPAT; US-PGPUB;	2002/07/18 17:16
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	3	((dx adj (center or level))) and (clad\$6 near (region or layer or film or	USPAT;	2002/07/18 17:22
	:	medium)) and ((graded or separate near confinement near	US-PGPUB;	
		heterostructure or sch or confinement) near (region or layer or	ЕРО; ЈРО;	
		medium or film))	DERWENT;	
			IBM_TDB	0000/05/40 45 45
-	1206	((dx or (Donor Complex)) adj (center or level))	USPAT; US-PGPUB;	2002/07/18 17:17
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	9	(((dx or (Donor Complex)) adj (center or level))) and (clad\$6 near	USPAT;	2002/07/18 17:19
		(region or layer or film or medium)) and ((graded or separate near	US-PGPUB;	
		confinement near heterostructure or sch or confinement) near	EPO; JPO;	
		(region or layer or medium or film))	DERWENT;	
			IBM_TDB	0000/05/10 15
-	0	((((dx or (Donor Complex)) adj (center or level))) same (clad\$6 near	USPAT;	2002/07/18 17:20
		(region or layer or film or medium)) same ((graded or separate near	US-PGPUB; EPO; JPO;	
		confinement near heterostructure or sch or confinement) near (region or layer or medium or film)))	DERWENT;	
		(1081011 of fayer of medium of finity))	IBM_TDB	
-	1	("5963572").PN.	USPAT	2002/07/29 11:13
-	1	confinement and clad\$6 and (("5963572").PN.)	USPAT;	2002/07/29 11:14
		, , ,	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	<u> </u>		IBM_TDB	<u> </u>

-	1	(confinement same clad\$6) and (("5963572").PN.)	USPAT;	2002/07/29 11:14
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	